REQUEST FOR PROPOSAL
Addendum #2

Date: **June 15th, 2006**

RFP Title:	**Supervisory Process Control System**
Requesting Dept./ Div.:	**Dept. of Natural Resources and Parks Wastewater Treatment Division**
RFP Number:	**05-085KAH**
Revised Due Date/Time:	**June 29th, 2006 – no later than 2:00 P.M.**
Buyer:	Kathleen Hilliard Kathleen.hilliard@metrokc.gov , 206-263-4274

This addendum is issued to revise the Original Request for Proposal, dated May 4, 2006 as follows:

1.   **"Add the following item", Exhibit C7 - Section 3, 3.2 MTBF**

   a) Provide the Following information

      A.   Provide Mean Time Between Failure (MTBF) for the following SPCS hardware components in hours.

      - Single processors
      - Redundant processors
      - Single power supply modules
      - Redundant power supply modules
      - Ethernet, TCP/Modbus modules
      - Analog Input, Analog Output, Discrete Input, Discrete Output modules
      - Controller Chassis
      - DeviceNet, Foundation Fieldbus, Profibus, Hart modules

SUBMITTERS SHALL COMPLETE AND SIGN THE FORM BELOW (TYPE OR PRINT)

Company Name		
Address	City/State/Zip Code	
Signature	Authorized Representative / Title	
E-mail	Phone	Fax

B. Provide Mean Time Between Failure (MTBF) for the following SPCS software components in hours.

- HMI
- EWS

C. Provide Mean Time Between Failure (MTBF) for the following SPCS system components in hours.

- Normalized ACC BOM System (this must include all components affection MTBF; hardware, software, firmware, etc).
- Normalized SPCS System (this must include all components affection MTBF; hardware, software, firmware, etc).
- Normalized R-SPCS (this must include all components affection MTBF; hardware, software, firmware, etc).

2. **"Add the following item", Exhibit C8 – Table C8-32**

b) Provide the Following information as separate line items within the table C8-32

A. Provide itemized list of components with pricing, as per the defined structure, for all proposed off site communications SPCS components.

END OF ADDENDUM 2

GENERAL QUESTIONS ASKED BY CONTRACTOR

3. **QUESTION 06:08-#1**

   Is there a separate RFP for operator consoles furniture?

   ANSWER 06:08-#1

   1)   King County does not require new or revised operator console furnishings at this time.

4. **QUESTION 06:09-#1**

   How many separate PI systems are there, is there one for each site (South Plant, West Point and BW) plus an overall one?

   ANSWER 06:09-#1

   1)   The intent for the overall WTD historian design is to have a PI system at each facility (South Plant, West Point and Brightwater, and smaller facilities as required) based on one or more sets of redundant buffer nodes connected to one PI server per site. King Street Center, Seattle, utilizes a WTD PI server connected to each site via PI to PI connection.
   2)   At this time, King County has OSIsoft PI System servers located at South Treatment Plant and West Point Treatment Plant. These are connected to the current control systems via dual buffer nodes per PI server. The County contract with OSIsoft ensures tag coverage for all current and planned wastewater treatment sites, as well as a business data PI server (via PI-to-PI connection) located at King Street Center. Proposals should be based on the above connectivity, with a minimum support of 10,000 tags per OSI PI server.

5. **QUESTION 06:12-#1**

   What are the current consoles running that are able to communicate with the 4 PLC types and the DCS system?

   ANSWER 06:12-#1

   1)   Currently, a portable laptop running MSDOS is used to program existing TI PLC's (TISoft2 Version 6.01). The Forney DCS is running MSDOS, ECS 1200 software that is connected via a fiber optic backbone to each of the ACC's.

6. **QUESTION 06:12-#2**

   The RFP states that KC wants to be able to access plants from other plants (i.e., see what is going at Brightwater from the South Plant). Do you want to be able to see alarms from other plants?

   ANSWER 06:12-#2

   2)   Yes, as discussed in the Tier 3 –HMI. Refer to Exhibit C1: Technical Specifications, Tier 3 – HMI, 2.3 SOFTWARE REQUIREMENTS, B. Graphical User Interface (GUI), e) Global alarming (Perform alarm management & disable alarms)

   f)   Activity and alarm logging.

7. **QUESTION 06:12-#3**

   Does this RFP require a real time alarm summary or is an alarm historian acceptable?

ANSWER 06:12-#3

3) Refer to answer 06:12-#2. Real time alarms are required for live (real time) process control and monitoring of the regional system. Alarm historian is also required in addition to the real time alarm monitoring and management system.

8. **QUESTION 06:12-#4**

Where the RFP states 1000 users (web clients), does that mean 1000 web clients or 1000 different users on a limited number of clients?

ANSWER 06:12-#4

4) Refer to Addendum 1 Date: May 24, 2006, Item 11, Part C Exhibit C2 – System Drawings and Design References, b) G000003 Normalization. Which states the following:

"The 1000 concurrent users at the corporate level are web-based connections to the R-SPCS. The 100 users defined in the Exhibit C7 Section 2.3, C,1, a),. are physical fat client HMI connections to SPCS."